Wiltron

Site Master™
S110, S111, S112, S113,
S330, S330A, S331, S331A
and
Cable Mate™
C751, C752
Personal SWR/RL and
Fault Location Tester

Battery Replacement
and
Disposal Guide

Battery Markings

The nickel-cadmium battery used in the Site Master and Cable Mate is covered by the Battery Directive (91/157/EEC). As such, the battery is marked as follows to indicate controlled disposal.

This marking indicates that the battery is a recyclable product.

NiCd

This marking indicates that the battery requires separate collection and shows the chemical system (Nickel/Cadmium).

Component	% of Cell Weight
Nickel	19 to 26%
Cadmium	17 to 22%

This marking indicates the heavy-metal component concentration as a percentage of battery cell weight.

Introduction

This guide provides a description of the battery contained in the Site Master and Cable Mate series instruments and instructions for its removal, replacement, and disposal.

Battery Description

The Site Master and Cable Mate instruments are powered by a rechargeable nickel-cadmium (NiCd) battery. The concentrations of these heavy metal components as a percentage of cell weight are as follows:

Component	% of Cell Weight①
Nickel	19 to 26%
Cadmium	17 to 22%

① Concentrations vary depending upon the state of charge or discharge.

The chemical components of the battery are packed in a hermetically-sealed cell case. The battery is housed in a cylindrical metal case with a resetting safety valve. This safety device activates to ensure safety in the case of an abnormal increase in gas pressure in the battery.

Optimal operating temperature range for battery use is –20 C to 60 C. The nickel-cadmium battery should not be used or placed in high temperature zones such as under strong direct sunlight, inside a hot vehicle, near a fire, or in front of a stove.

After use, the battery should be recharged as soon as possible. When the nickel-cadmium battery is not to be used for a long time, it should be stored in a cool place.

When spent, the nickel-cadmium battery should be replaced and recycled as described in the following paragraphs. Do ***not*** throw the battery away!

Battery Removal and Replacement

The following paragraphs provide instructions for removing and replacing the Site Master and Cable Mate battery assembly. Refer to Figure 1 during this procedure.

Battery Removal

Step 1. Place the Site Master or Cable Mate face up on the work surface.

Step 2. Remove the four corner rubber bumpers (1).

Step 3. Remove the four screws (WPN 900-811) (2).

Step 4. While holding the two halves of the Site Master or Cable Mate together, turn it over and set it face down on the work surface.

CAUTION

In the next step, the Main RF PCB assembly (3) and test port panel (4) must stay with the front panel.

Step 5. Remove the bottom half (5) and fold it over to lay upside down on the work surface.

Step 6. Disconnect the battery connector from J6 (6) of the Main RF PCB assembly (3).

Step 7. Remove the four push-pull connectors (7) holding the battery bracket (8) in place and lift the bracket clear.

Step 8. Remove the battery assembly (9).

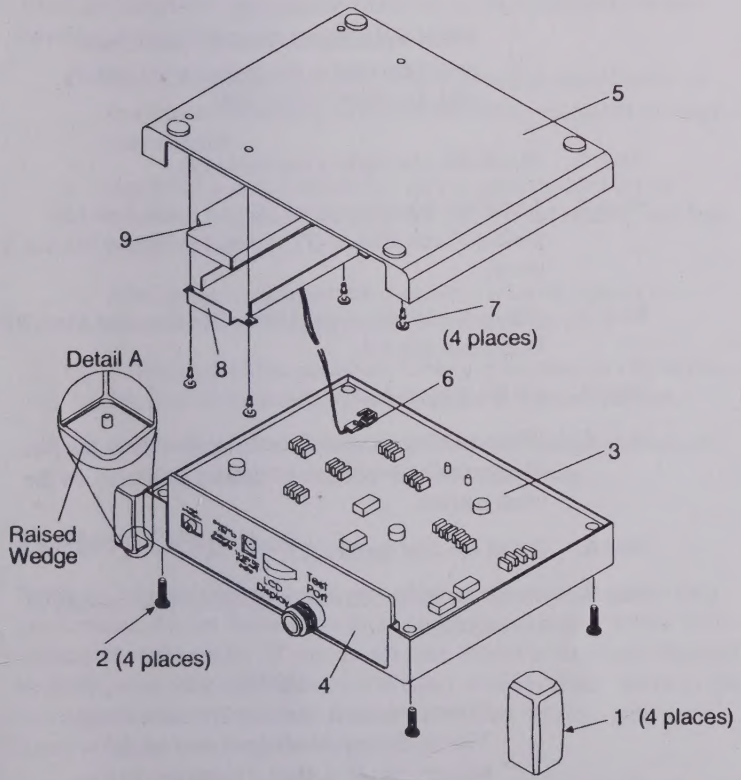

Figure 1. Battery Removal

Battery Replacement

NOTE

When replacing the battery, use all new parts provided in the replacement battery pack kit (WPN ND41794).

Step 1. Install the new battery assembly (9).

Step 2. Install the battery bracket (8) and insert four new push-pull connectors (7) to hold the battery bracket in place.

Step 3. Attach the battery connector to J6 (6) on the Main RF PCB assembly (3).

Step 4. Set the bottom half in place.

Step 5. While holding the two halves together, turn the Site Master or Cable Mate over and lay it face up on the work surface.

Step 6. Install the four screws (2).

Step 7. Install the rubber bumpers (1) on all four corners of the instrument.

NOTE

Corner bumpers can only mount one way. That is, the raised-wedged area on the bumper inside (Detail A) attaches to the front cover.

Uncontrolled Disposal Dangers

There are dangers in uncontrolled disposal of spent nickel-cadmium batteries. A few of the reasons are listed here.

- Nickel-cadmium batteries when exposed to open flames or overheated beyond their normal operating temperature range may explode.
- Applying a strong shock to a nickel-cadmium battery or throwing it against anything can cause it to break up and leak fluid.
- Attempting to disassemble a nickel-cadmium battery can cause it to leak fluid, generate heat, or break up.
- Allowing a nickel-cadmium battery to become wet by exposing it to water or salt water can cause it to generate heat.
- Cadmium is classified by the US Environmental Protection Agency as a "B1" probable human carcinogen.

Battery Disposal

Spent nickel-cadmium batteries are valuable resources. Because they are reusable, do ***not*** throw them away. Arrange for proper return for recycling in your locality. If you do not have access to to proper disposal methods, return the battery to your Wiltron service center. Service centers will dispose of the unit at no charge. Wiltron service centers are listed in Table 1 on the following pages.

Table 1. Wiltron Service Centers (1 of 2)

UNITED STATES

ANRITSU WILTRON COMPANY
685 Jarvis Drive
Morgan Hill, CA 95037–2809
Telephone: (408) 776–8300
FAX: 408–776–1744

ANRITSU WILTRON COMPANY
10 Kingsbridge Road
Fairfield, NJ 07004
Telephone: (201) 227–8999
FAX: 201–575–0092

AUSTRALIA

ANRITSU WILTRON PTY. LTD.
Level 2, 410 Church Street
North Parramatta
NSW 2151 Australia
Telephone: 026–30–81–66
Fax: 026–83–68–84

BRAZIL

ANRITSU WILTRON ELECTRONICA LTDA.
Praia de Botafogo 440, Sala 2401
CEP 22250–040,Rio de Janeiro,RJ, Brasil
Telephone: 021–28–69–141
Fax: 021–53–71–456

CANADA

ANRITSU WILTRON INSTRUMENTS LTD.
215 Stafford Road, Unit 102
Nepean, Ontario K2H 9C1
Telephone: (613) 828–4090
FAX: (613) 828–5400

CHINA

WILTRON BEIJING SERVICE CENTER
416W Beijing Fortune Building
5 Dong San Huan Bei Lu
Chao Yang Qu, Beijing 100004,
China
Telephone: 86–1–650–17–559
FAX: 86–1–650–17–558

FRANCE

ANRITSU WILTRON S.A
9 Avenue du Quebec
Zone de Courtaboeuf
91951 Les Ulis Cedex
Telephone: 016–44–66–546
FAX: 016–44–61–065

GERMANY

ANRITSU WILTRON GmbH
Grafenberger Allee 54–56
D–40237 Dusseldorf
Germany
Telephone: 0211–67 97 60
FAX: 0211–68 33 53

INDIA

MEERA AGENCIES (P) LTD
A–23 Hauz Khas
New Delhi 110 016
Telephone: 011–685–3959
FAX: 011–686–6720

Table 1. Wiltron Service Centers (2 of 2)

ISRAEL
TECH–CENT, LTD
Haarad St. No. 7, Ramat Haahayal
Tel–Aviv 69701
Telephone: (03) 64–78–563
FAX: (03) 64–78–334

ITALY
ANRITSU WILTRON Sp.A
Rome Office
Via E. Vittorini, 129
00144 Roma EUR
Telephone: (06) 50–22–666
FAX: (06) 50–22–4252

JAPAN
ANRITSU CORPORATION
1800 Onna Atsugi–shi
Kanagawa–Prf. 243 Japan
Telephone: 0462–23–1111
FAX: 0462–25–8379

KOREA
ANRITSU WILTRON KOREA (AWK)
#807 Seoulin Bldg. 45–15,Yeoido
Dong, Youngdeungpo–ku
Seoul Korea 150010
Telephone: 1011–82–2–783–6391
FAX: 011–82–2–784–4593

SINGAPORE
ANRITSU WILTRON (SINGAPORE) PTE LTD
3 Shenton Way #24–03
Shenton House
Singapore 0106
Telephone: 011–65–2265206
FAX: 011–65–2265207

SWEDEN
ANRITSU WILTRON AB
Box 247
S–127 25 Skarholmen
Telephone: (08) 74–05–840
FAX: (08)71–09–960

TAIWAN
ANRITSU WILTRON CO., LTD.
8F, No. 96, Section 3
Chien Kuo N. Road
Taipei, Taiwan, R.O.C.
Telephone: (02) 515–6050
FAX: (02) 509–5519

UNITED KINGDOM
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Luton, Bedfordshire
LU1 3LU, England
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NOTES

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